

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent:	:	Group Art Unit: 3635
Michael Jerry Brown	:	
	:	
Patent Number: 7,191,569	:	Examiner: NGUYEN, Chi Q.
	:	
Issued: March 20, 2007	:	Confirmation No.: 4075
	:	
Title: TELESCOPING PIER FOUNDATION	:	Attorney Docket No.: E0616-00001
	:	

ATTN: Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT
FOR APPLICANT'S MISTAKE UNDER 37 C.F.R. 1.323

Dear Sir:

It is noted that an error of a clerical or typographical nature, or of minor character, which was not the fault of the U.S. Patent and Trademark Office, appears in the herewith patent and that such mistake occurred in good faith. This correction does not involve such changes in the patent as would constitute new matter or would require reexamination and is more fully described on the attached PTO/SB/44 Form - Certificate of Correction.

In the Letters Patent (copy of first page enclosed) received on 20 March 2007, item number (73) is entered as "Telecopier Foundations LLC, Atlanta, GA (US)", please enter item numbers (73) as follows:

(73) Assignee: Telepier Foundations LLC, Atlanta, GA (US)

In the Letters Patent (copy of page enclosed) received on 20 March 2007, Claim 20, Column 13, Line 6 is entered as "shaft portion of the wound anchor is driven into the", please enter Claim 20, Column 13, Line 6 as follows:

shaft portion of the ground anchor is driven into the

Applicant hereby submits Form PTO/SB/44 in duplicate with at least one copy being suitable for printing. Applicant requests a Certificate of Correction to correct the above errors which are errors of a clerical or typographical nature. The Commissioner is authorized to charge the amount of the processing fee for this request in the amount of \$100.00, and charge any additional fees in connection with this filing to Deposit Account No. 04-1679.

Respectfully submitted,

Date: March 20, 2007

/Won Joon Kouh/

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**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 7,191,569
APPLICATION NO.: 10/797,615
ISSUE DATE : 03/20/2007
INVENTOR(S) : MICHAEL JERRY BROWN

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Item Number (73) is incorrect as it appears. Please enter item number (73) as follows:

(73) Assignee: Telepier Foundations LLC, Atlanta, GA (US)

Column 13, Line 6 is incorrect as it appears. Please enter Column 13, Line 6 as follows:

shaft portion of the ground anchor is driven into the

MAILING ADDRESS OF SENDER (Please do not use customer number below):

WON JOON KOUH
DUANE MORRIS' LLP
P.O. BOX 5203, PRINCETON, NJ 08543-5203

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



US007191569B2

(12) **United States Patent**
Brown

(10) Patent No.: **US 7,191,569 B2**(45) Date of Patent: **Mar. 20, 2007**(54) **TELESCOPING PIER FOUNDATION**(75) Inventor: **Michael Jerry Brown, Warner Robins, GA (US)**(73) Assignee: **Telecopier Foundations LLC, Atlanta, GA (US)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 21 days.

(21) Appl. No.: **10/797,615**(22) Filed: **Mar. 10, 2004**(65) **Prior Publication Data**

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Related U.S. Application Data

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(51) Int. Cl.
E02D 27/00 (2006.01)(52) U.S. Cl. **52/293.3; 52/157; 52/126.6; 52/296; 52/298; 52/111; 52/738.8**(58) **Field of Classification Search** **52/292, 52/157, 126.6, 263, 293.3, 295, 296, 298, 52/DIG. 11, 297, 294, 111, 738.1, 737.5, 52/123.1, 165, 126.5; 405/231, 232, 233, 405/249, 257**

See application file for complete search history.

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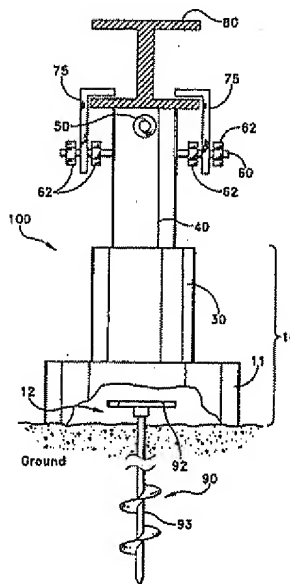
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Primary Examiner—Naoko Slack*Assistant Examiner*—Chi Q. Nguyen(74) *Attorney, Agent, or Firm*—Duane Morris LLP(57) **ABSTRACT**

A telescoping pier foundation system (100, 100a, 100b) comprises generally an outer shell preferably made of a tough material, such as, a suitable polymer or a metal alloy, having an internal cavity (12) for receiving cementitious mixture. The outer shell comprises a stationary portion (10) and at least one longitudinally telescoping member (30) in longitudinal alignment with one another and connected to one another to achieve a given height, length or depth for forming a pier foundation. After the at least one telescoping member (30) is raised to meet a structural member (80, 80a) of a building and secured to the structural member, the internal cavity (12) of the outer shell is filled with cementitious mixture and cured to form a composite pier foundation.

41 Claims, 14 Drawing Sheets

13

cavity in communication with the at least one fill port for receiving the cementitious mixture:

a core of cured cementitious material substantially filling the internal cavity, and at least one ground anchor having a top portion and a shaft portion, wherein the shaft portion of the ground anchor is driven into the ground beneath the composite pier foundation and the top portion is imbedded in the cured cementitious material.

21. The composite pier foundation of claim 20, wherein the stationary portion is made from polyvinylchloride.

22. The composite pier foundation of claim 20, wherein the at least one telescoping member is made from polyvinylchloride.

23. The composite pier foundation of claim 20, wherein the stationary portion is made from a metal alloy.

24. The composite pier foundation of claim 20, wherein the at least one telescoping member is made from a metal alloy.

25. The composite pier foundation of claim 20, wherein the stationary portion comprises:

a base; and
a column portion, wherein the top end opening is provided on the column portion.

26. The composite pier foundation of claim 25, wherein the base is made from polyvinylchloride.

27. The composite pier foundation of claim 25, wherein the base is made from a metal alloy.

28. The composite pier foundation of claim 25, wherein the column portion is made from polyvinylchloride.

29. The composite pier foundation of claim 25, wherein the column portion is made from a metal alloy.

30. The composite pier foundation of claim 20, wherein the cured cementitious mixture is concrete.

31. The composite pier foundation of claim 20, wherein the at least one telescoping member comprises a fastening system for securing the telescoping member to a structural member of a building.

32. The composite pier foundation of claim 31, wherein the fastening system comprises one or more brackets for engaging the structural member of a building.

33. The composite pier foundation of claim 32, wherein the fastening system further comprises a connector for securing the one or more brackets to the telescoping member.

34. The composite pier foundation of claim 31, wherein the fastening system comprises an anchoring portion for anchoring the fastening system to the cementitious mixture filling the internal cavity.

35. A method of installing a telescoping pier foundation system, the method comprising:

driving at least one ground anchor having a top portion into the ground beneath a structural member of a building;

positioning an outer shell of the telescoping pier foundation system beneath the structural member of the building, the outer shell having an internal cavity, wherein the positioned outer shell covers the at least one ground anchor and the top portion of the at least one ground anchor extends into the internal cavity of the outer shell;

raising a telescoping member of the outer shell until the telescoping member contacts the structural member of the building;

securing the telescoping member to the structural member of the building;

14

filling the internal cavity of the outer shell substantially fully with a cementitious mixture; and

allowing the cementitious mixture to cure forming a composite pier foundation, wherein the top portion of the at least one ground anchor is embedded within the cured cementitious mixture.

36. The method of claim 35, wherein the step of securing the telescoping member to the structural member of the building requires the use of a fastening system that connects directly to the telescoping member.

37. A telescoping pier foundation system for forming a composite pier foundation filled with cured cementitious material for supporting a structural member of a building, the system comprising:

a stationary portion of a hollow structure having a solid sidewall and a top end opening;

at least one telescoping member of a hollow structure having, a top open end and a bottom open end, in longitudinal alignment with the stationary portion, residing within the top end opening of the stationary portion and longitudinally movable within the top end opening and extendable through the top end opening;

at least one fill port for receiving a cementitious mixture, wherein the stationary portion and the telescoping member form an outer shell defining an internal cavity in communication with the at least one fill port for receiving the cementitious mixture,

wherein the stationary portion comprises a base and a column portion, wherein the top end opening of the stationary portion is provided on the column portion and a plurality of reinforcement ribs are provided joining the base and the column portion.

38. A telescoping pier foundation system for forming a composite pier foundation filled with cured cementitious material for supporting a structural member of a building, the system comprising:

a stationary portion of a hollow structure having a solid sidewall and a top end opening;

at least one telescoping member of a hollow structure having, a top open end and a bottom open end, in longitudinal alignment with the stationary portion, residing within the top end opening of the stationary portion and longitudinally movable within the top end opening and extendable through the top end opening;

at least one fill port for receiving a cementitious mixture, wherein the stationary portion and the telescoping member form an outer shell defining an internal cavity in communication with the at least one fill port for receiving the cementitious mixture; and

at least one ground anchor having a top portion and a shaft portion, wherein the shaft portion of the ground anchor gets driven into the ground beneath the composite pier foundation and the top portion is imbedded in the cured cementitious material when the telescoping pier foundation system is installed.

39. A composite pier foundation for supporting a structural member of a building structure comprising:

an outer shell comprising:

a stationary portion of a hollow structure having a solid sidewall and a top end opening;

at least one telescoping member of a hollow structure having a top open end and a bottom open end, in longitudinal alignment with the stationary portion, residing within the top end opening of the stationary portion, longitudinally movable within the top end opening and extendable through the top end opening;